



GEOLOGIST I

CHARACTERISTICS OF WORK:

This is advanced professional work involving field, laboratory, and library research in various phases and subdisciplines of Geology and geotechnical investigations, and issues related to environmental concerns, rules, and regulations. Incumbents perform various technical functions, e.g. mapping; data collection including geologic, geotechnical, geochemical, and other sample taking; assisting and preparing technical and public information reports. Work also includes providing advice to the scientific community, governmental agencies and the public and the analysis/evaluation of geologic interpretations prepared by other agencies and the private sector. Incumbent assists with the analysis of geological structures, geotechnical information/factors, contaminant remediation plans and evaluations, as well as other geologic information, processes, and environmental impacts including those to ground water aquifers and surface waters. Work may also include mineral resources (including oil and gas resources), construction aggregates and soils, hydrogeology, near surface geology, geologic hazards, geotechnical studies, engineering geology, petroleum geology, coastal geology, and other studies related to land-use planning, surface and ground water resources, environmental regulation or other comprehensive studies. Assignments are received from an administrative superior and are generally performed under their supervision. Positions allocated to this classification differ from those of Geologist II chiefly in the amounts of supervision received.

MINIMUM QUALIFICATIONS:

These minimum qualifications have been agreed upon by Subject Matter Experts (SMEs) in this job class and are based upon a job analysis and the essential functions. However, if a candidate believes he/she is qualified for the job although he/she does not have the minimum qualifications set forth below, he/she may request special consideration through substitution of related education and experience, demonstrating the ability to perform the essential functions of the position. Any request to substitute related education or experience for minimum qualifications must be addressed to the State Personnel Board in writing, identifying the related education and experience which demonstrates the candidate's ability to perform all essential functions of the position.

EXPERIENCE/EDUCATIONAL REQUIREMENTS:

Education:

A Master's Degree in Geology from an accredited college or university;

AND

Experience:

Three (3) years of geological work experience.

OR

Education:

A Bachelor's Degree in Geology from an accredited college or university;

AND

Experience:

Four (4) years of geological work experience.

Registration Required:

Applicant must be registered and maintain said registration as a Registered Professional Geologist (RPG) by the Mississippi State Board of Registered Professional Geologists in order to maintain this employment position.

Licensure:

Must possess a valid driver's license.

Documentation Required:

Applicant must attach a valid copy of his/her registration wallet card or other documentation supplied by the Mississippi State Board of Registered Professional Geologists indicating that they are a Registered Professional Geologist (RPG) in good standing.

PHYSICAL REQUIREMENTS:

These physical requirements are not exhaustive, and additional job related physical requirements may be added to these by individual agencies on an as needed basis. Corrective devices may be used to meet physical requirements. These are typical requirements; however, reasonable accommodations may be possible.

Moderate Work: May frequently exert force equivalent to lifting up to approximately 25 pounds and/or occasionally exert force equivalent to lifting up to approximately 50 pounds.

Vision: Requires the ability to perceive the nature of objects by the eye.

Near Acuity: Clarity of vision at 20 inches or less.

Midrange: Clarity of vision at distances of more than 20 inches and less than 20 feet.

Far Acuity: Clarity of vision at 20 feet or more.

Peripheral: Ability to observe an area that can be seen up and down or left and right while eyes are fixed on a given point.

Depth Perception: Three-dimensional vision. Ability to judge distances and spatial relationships so as to see objects where and as they actually are.

Ability to adjust focus: Ability to adjust the eye to bring an object into sharp focus.

Speaking/Hearing: Possesses the ability to give and receive information through speaking and listening skills.

Motor Coordination: While performing the duties of this job, the incumbent is regularly required to use hands to finger, handle, or feel objects, tool, or controls; and reach with hands and arms. The incumbent is frequently required to stand; sit; and walk. The incumbent is occasionally required to climb or balance; and stoop, kneel, crouch, or bend.

COMPETENCIES:

The following competencies describe the knowledge, skills, abilities, and attributes that lead to a successful employee in this position. An applicant will be expected to exhibit these competencies or the ability to reach competency achievement within a specified time. These competencies are linked to the essential functions of the job. Employees in this position may be evaluated on these competencies as part of the performance appraisal system. Example behaviors are listed below each competency and are used for illustrative purposes only. Specific behaviors may be identified and included later by the hiring agency. It is understood that some of these behaviors might not be acquired until a reasonable time after hire. Failure of an employee to successfully demonstrate some or all of these competencies, as deemed important by his or her reporting official, may result in the employee being placed on a performance improvement plan. If after a reasonable period of time, usually three (3) months, the employee fails to demonstrate successful performance, the employee may be terminated. These competencies include, but are not limited to, the following:

PUBLIC SECTOR COMPETENCIES:

Integrity: Exhibits behaviors showing a strong internal personal commitment to fundamental principles of honesty and fairness dealing in all activities related to job performance.

Work Ethic: Is productive, diligent, conscientious, timely, and loyal.

Service Orientation: Demonstrates a commitment to quality public service through statements and actions.

Accountability: Accepts responsibility for actions and results.

Self Management Skills: Effectively manages emotions and impulses and maintains a positive attitude.

Interpersonal Skills: Shows understanding, courtesy, tact, empathy, and concern to develop and maintain relationships.

Communication Skills: Receives, attends to, interprets, and responds to verbal messages and expresses information to individuals or groups effectively.

Self-Development: Adapts behavior or work methods in response to new information, changing conditions, or unexpected obstacles.

TECHNICAL COMPETENCIES:

Geology: Possesses knowledge of the composition, structure, physical properties, history, and the processes that shape Earth's components; possesses knowledge of current principles, practices, and methods involved in the performance of geological work.

Applies professional level knowledge of applicable standards, guidelines, methods, and tools involved in the performance of geological work. Possesses knowledge of the current principles, practices, literature, and trends in professional and technical field and laboratory geology.

Geological Research: Applies technical knowledge in the collection, investigation, and analysis of geological data.

Performs field, laboratory, and library research in various phases and sub-disciplines of Geology and geotechnical investigations. Performs or supervises a wide variety of geological research of specific and general sites statewide. Collects information on but not limited to engineering and geotechnical capabilities/properties of various geologic formations, earth, and earth materials.

Technical Communication: Effectively conveys usable information through writing or speech about a specific topic to an intended audience

Prepares technical and public information reports. Provides advice to the scientific community, governmental agencies, the private sector, and the public. Presents oral and written information internally or externally using proper grammar, punctuation, and content.

Technology Application: Uses tools and equipment effectively; uses computers and computer applications to analyze and communicate information in the appropriate format.

Operates, maintains, and safely uses specialized geological field and laboratory equipment. Possesses knowledge of computer hardware, software, and applications for analyzing research data and writing reports.

Analytical Thinking: Uses knowledge and logic to solve problems, analyze data, and use information.

Possesses the ability to form logical, reasonable conclusions and make sound recommendations based on available geological research data. Analyzes impact of aquifer, shoreline and coastal zones, wetlands, and other geological systems by human activities. Analyzes and interprets geologic interpretations prepared by others.

Technical Competence: Uses knowledge that is acquired through formal training or education or extensive on-the-job experience to perform one's job; works with, understands, and evaluates technical information; advises others on technical issues.

Reviews lithologic, stratigraphic, hydrogeologic and environmental interpretations as submitted by applicants in support of permit requests for mining, reclamation, municipal/public water well permits and field design, injection wells, waste disposal, dredge and fill, land use plans, oil and gas wells, and geologic processes in coastal areas including shoreline erosion improvements. Signs off and seals permits, contracts, reports, and other documents which require a Registered Professional Geologist seal for public record or other state laws. Performs technical functions, e.g., mapping, sample taking, etc.

ESSENTIAL FUNCTIONS:

Additional essential functions may be identified and included by the hiring agency. The essential functions include, but are not limited to, the following:

1. Collects, analyzes, and reports geologic data.
2. Communicates with stakeholders and/or the public.

EXAMPLES OF WORK:

Examples of work performed in this classification include, but are not limited to, the following:

Performs or supervises a wide variety of geological research of specific and general sites statewide.

Assists, supervises, advises, investigates, evaluates, interprets, inventories, and catalogues in the following geologic-geotechnical-geohydrologic-geochemical work sectors.

Collects information to create reports, maps (of all types), X-sections and profiles, analyses, surface and subsurface waters, well/borehole data/logs, mineral deposits (including oil and gas, lignite, sand, gravel, and clay), petrographic interpretations, paleontological interpretations, lithologic/earth and earth material descriptions, computes technical data of all types. Also may be involved in the determination and evaluation of the extent of contaminated earth and earth materials in environmental assessment/contaminated areas.

Supervises, collects, and develops information on but not limited to engineering and geotechnical capabilities/properties of various geologic formations, earth, and earth materials.

Determines areas suitable for solid waste sites, and performs studies related to the disposal, remediation, or containment of toxic and hazardous wastes (surface and subsurface).

Analyzes impact on aquifer, shoreline and coastal zones, wetlands, and other geological systems by human activities.

Reviews lithologic, stratigraphic, hydrogeologic and environmental interpretations as submitted by applicants in support of permit requests for mining, reclamation, municipal/public water well permits and field design, injection wells, waste disposal, dredge and fill, land use plans, oil and gas wells, and geologic processes in coastal areas including shoreline erosion improvements.

Signs off and seals permits, contracts, reports, and other documents which require a Registered Professional Geologist seal for public record or other state laws.

Performs compliance inspections of hazardous and non-hazardous facilities and mine sites.

Performs related or similar duties as required or assigned.

INTERVIEW REQUIREMENTS:

Any candidate who is called to an agency for an interview must notify the interviewing agency in writing of any reasonable accommodation needed prior to the date of the interview.